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(FILE 'HOME' ENTERED AT 18:03:10 ON 22 JUN 2004)

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, CANCERLIT, JAPIO' ENTERED AT  
18:03:43 ON 22 JUN 2004

L1 9 S (UNCHARACTERIZED ANTIBO?)  
L2 6 DUPLICATE REMOVE L1 (3 DUPLICATES REMOVED)  
L3 416 S (ANTIBO? SCREEN)  
L4 0 S L3 AND ARRAY?  
L5 0 S L3 AND LYSATE?  
L6 214 S L3 AND CELL?  
L7 10 S L6 AND CHARACTERIZED  
L8 4 DUPLICATE REMOVE L7 (6 DUPLICATES REMOVED)  
L9 11 S L3 AND CHARACTERIZED  
L10 7 S L9 NOT L8  
L11 3 DUPLICATE REMOVE L10 (4 DUPLICATES REMOVED)  
L12 0 S UNCHARACTERIZED AND ANTIBOD?  
L13 1473 S UNCHARACTERIZED AND ANTIBOD?  
L14 58 S L13 AND LYSATE?  
L15 48 S L14 AND PROTEIN?  
L16 26 S L14 AND EXPRESSION?  
L17 20 S L15 AND L16  
L18 8 DUPLICATE REMOVE L17 (12 DUPLICATES REMOVED)

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, CANCERLIT, JAPIO' ENTERED AT  
18:40:16 ON 22 JUN 2004

L19 416 S (ANTIBOD? SCREEN)  
L20 2 S L19 AND (PROTEIN EXPRESSION)  
L21 2567 S ARRAY AND (PROTEIN EXPRESSION)  
L22 25 S L21 AND (CELL LYSATE)  
L23 11 S L22 AND ANTIBOD?  
L24 5 DUPLICATE REMOVE L23 (6 DUPLICATES REMOVED)

=>

ANSWER 13 OF 23 MEDLINE on STN

AN 90382644 MEDLINE  
DN PubMed ID: 2401390  
TI Automatic purification of monoclonal antibodies.  
AU van der Voort K  
CS Dalton B.V., Waalwijk, the Netherlands.  
SO Developments in biological standardization, (1990) 71 87-90.  
Journal code: 0427140. ISSN: 0301-5149.  
CY Switzerland  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199010  
ED Entered STN: 19901122  
Last Updated on STN: 19901122  
Entered Medline: 19901019  
AB Purification has become the rate limiting step in the development and production of protein-based products, especially for monoclonal antibodies. An example of a fully integrated low/medium pressure chromatograph is presented. The MabLab is driven by expert software and it characterizes an **unknown antibody** in about five hours, and when large amounts of antibody containing fluid are available, it runs production cycles. The purification of the antibody proceeds unattended and with an increased speed, by using the data of the characterization run, and a step elution pattern.  
CT Animals  
\*Antibodies, Monoclonal: IP, isolation & purification  
Autoanalysis  
Cell Line  
Chromatography, Ion Exchange  
Mice  
Software  
CN 0 (Antibodies, Monoclonal)

ANSWER 8 OF 23 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN

AN 1994:91544 BIOSIS

DN PREV199497104544

TI Effect of O-sialoglycoprotease treatment on Ag recognition by the B  
**cell** panel of **unknown antibodies**.

AU Saunders, Kim B. [Reprint author]; Engel, Pablo; Mellors, Alan; Tedder,  
Thomas F. [Reprint author]

CS Dana-Farber Cancer Inst., Harvard Med. Sch., Boston, MA, USA

SO Tissue Antigens, (1993) Vol. 42, No. 4, pp. 324.  
Meeting Info.: 5th International Conference on Human Leukocyte  
Differentiation Antigens. Boston, Massachusetts, USA. November 3-7, 1993.  
CODEN: TSANA2. ISSN: 0001-2815.

DT Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)  
Conference; (Meeting Poster)

LA English

ED Entered STN: 5 Mar 1994  
Last Updated on STN: 5 Mar 1994

CC General biology - Symposia, transactions and proceedings 00520  
Cytology - Human 02508  
Biochemistry studies - Proteins, peptides and amino acids 10064  
Biochemistry studies - Carbohydrates 10068  
Biophysics - Molecular properties and macromolecules 10506  
Biophysics - Membrane phenomena 10508  
Enzymes - Physiological studies 10808  
Blood - Blood cell studies 15004  
Blood - Lymphatic tissue and reticuloendothelial system 15008  
Physiology and biochemistry of bacteria 31000  
Immunology - General and methods 34502

IT Major Concepts  
Blood and Lymphatics (Transport and Circulation); Enzymology  
(Biochemistry and Molecular Biophysics); Immune System (Chemical  
Coordination and Homeostasis); Physiology

IT Miscellaneous Descriptors  
ANTIGEN; **CELL** SURFACE GLYCOPROTEIN CHARACTERIZATION; MEETING  
ABSTRACT; MEETING POSTER

ORGN Classifier  
Hominidae 86215  
Super Taxa  
Primates; Mammalia; Vertebrata; Chordata; Animalia  
Organism Name  
NAMALWA: **cell** line  
RAJI: **cell** line  
RAMOS: **cell** line  
Taxa Notes  
Animals, Chordates, Humans, Mammals, Primates, Vertebrates

ORGN Classifier  
Pasteurellaceae 06703  
Super Taxa  
Facultatively Anaerobic Gram-Negative Rods; Eubacteria; Bacteria;  
Microorganisms  
Organism Name  
Pasteurella haemolytica  
Taxa Notes  
Bacteria, Eubacteria, Microorganisms

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L24 5 DUPLICATE REMOVE L23 (6 DUPLICATES REMOVED)

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, CANCERLIT, JAPIO' ENTERED AT 18:53:52 ON 22 JUN 2004

L25 416 S (ANTIBO? SCREEN)  
L26 214 S L25 AND CELL?  
L27 0 S L26 AND LYSATE?  
L28 17 S L26 AND PROTEIN?  
L29 8 DUPLICATE REMOVE L28 (9 DUPLICATES REMOVED)  
L30 85 S (UNKNOWN ANTIBOD?)  
L31 14 S L30 AND PROTEIN?  
L32 3 S L31 AND EXPRESSION?  
L33 0 S L30 AND LYSATE?  
L34 300 S K30 AND CELL  
L35 42 S L30 AND CELL?  
L36 3 DUPLICATE REMOVE L32 (0 DUPLICATES REMOVED)  
L37 23 DUPLICATE REMOVE L35 (19 DUPLICATES REMOVED)

=>

on STN

AN 93011431 EMBASE

DN 1993011431

TI Differential epitope **expression** of Ly-48 (mouse leukosialin).

AU Baecher-Allan C.M.; Kemp J.D.; Dorfman K.S.; Barth R.K.; Frelinger J.G.

CS Cancer Center, Immunology Division, University Rochester Medical  
Center, Rochester, NY 14642, United States

SO Immunogenetics, (1993) 37/3 (183-192).

ISSN: 0093-7711 CODEN: IMNGBK

CY Germany

DT Journal; Article

FS 022 Human Genetics

025 Hematology

029 Clinical Biochemistry

LA English

SL English

AB Ly-48 is a major sialoglycoprotein expressed on the surface of a variety of mouse hematopoietic cells that exhibits many characteristic isoforms and may function in signal transduction and cell adhesion. Ly-48 is recognized by the 3E8-specific monoclonal **antibody** (mAb) and it has been suggested that it is the same antigen recognized by another mAb known as S7. In this report, we demonstrate definitively by transfection of a Ly-48 cDNA that S7 and two previously **uncharacterized** mAbs, S11 and S15, recognize the same antigen as the 3E8-specific mAb. However, 2-D gel immunoblot analyses demonstrate the complex nature of Ly-48. Although all four mAbs react similarly with **lysates** from the M-45 B-cell myeloma line, 2-D immunoblot analyses of the EL-4- T-cell line reveal three distinct patterns of reactivity. Further, while transfection of Ly-48 into the K562 erythroleukemic cell line conferred reactivity to all four mAbs, transfection of the Ly-48 cDNA into the nonhematopoietic cell line, Line I, conferred reactivity only to the S11 and S15 mAbs. Thus, the Line I transfectants suggest the importance of posttranslational modifications in the **expression** of the 3E8 and S7 epitopes. Interestingly, developing fetal liver cells show the same pattern of differential Ly-48-specific mAb reactivity. The developing early fetal liver cells are reactive with S11 and S15 but are negative, to very weakly, reactive with the 3E8-and S7-specific mAbs. These results show that Ly-48 epitopes can be expressed independently on cell lines in vitro and are differentially expressed on healthy cells in vivo.

CT Medical Descriptors:

**\*gene expression**

animal cell

antigen recognition

article

b lymphocyte

cell line

**cell lysate**

cell specificity

cell strain k 562

fetus liver

genetic transfection

human

human cell

immunoblotting

in vitro study

liver cell

lymphoid cell line

mouse

nonhuman

priority journal

**protein processing**

rat  
tissue distribution  
two dimensional electrophoresis  
Drug Descriptors:  
\*leukosialin: EC, endogenous compound  
complementary dna  
epitope: EC, endogenous compound

**monoclonal antibody**  
RN (leukosialin) 123897-54-1



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- Immunogenetics....

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URL: <http://link.springer-ny.com/link/service/journals/00251/tocs.htm> Click here to see page images via Springer Link (1996 -)

Notes: Available on ADONIS, v. 43, no. 1-2 (1996) - 54, no. 9 (2002)

ISSN: 0093-7711

Subjects: Immunogenetics -- Periodicals.

Description: v. : ill.; 24 cm.

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